PATENT COOPERATION TREATY

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From the INTERNATIONAL SEARCHING AUTHORITY	a DOT
To: IBM United Kingdom Limited Intellectual Property Law Attn. WILLIAMS, Julian David Hursley Park Winchester Hampshire SO21 2 JN UNITED KINGDOM	NOTIFICATION OF TRANSMITTAL OF THE INTERNATIONAL SEARCH REPORT OR THE DECLARATION (PCT Rule 44.1)
	Date of mailing (day/month/year) 10/02/2000
Applicant's or agent's file reference SA998163	FOR FURTHER ACTION See paragraphs 1 and 4 below
International application No. PCT/GB 99/03554	International filing date (day/month/year) 27/10/1999
INTERNATIONAL BUSINESS MACHINES CORPORA	TION et al.
1. X The applicant is hereby notified that the International Search Filing of amendments and statement under Article 19: The applicant is entitled, if he so wishes, to amend the claim When? The time limit for filing such amendments is normal International Search Report; however, for more of Where? Directly to the International Bureau of WIPO 34, chemin des Colombettes 1211 Geneva 20, Switzerland Fascimile No.: (41–22) 740.14.35 For more detailed instructions, see the notes on the accordance of the accordance of the colombet is the second of the colombet is the second of the colombet is the colombet in the colombe	ally 2 months from the date of transmittal of the etails, see the notes on the accompanying sheet.
3. With regard to the protest against payment of (an) addition the protest together with the decision thereon has been applicant's request to forward the texts of both the protest; the application of the protest against payment of (an) addition of the protest against payment of (an) addition of the protest against payment of (an) addition of the protest together with the decision thereon has been applicant's request to forward the texts of both the protest against payment of (an) addition of of (an)	n transmitted to the International Bureau together with the lest and the decision thereon to the designated Offices.
4. Further action(s): The applicant is reminded of the following:	
Shortly after 18 months from the priority date, the international ap If the applicant wishes to avoid or postpone publication, a notice priority claim, must reach the International Bureau as provided in completion of the technical preparations for international publication.	n Rules 90 <i>bis</i> .1 and 90 <i>bis</i> .3, respectively, before the tion.
Within 19 months from the priority date, a demand for international wishes to postpone the entry into the national phase until 30 more	and a norm the priority date (in some Offices even later)
Within 20 months from the priority date, the applicant must perforr before all designated Offices which have not been elected in the priority date or could not be elected because they are not bound	n the prescribed acts for entry into the national phase
lame and mailing address of the International Searching Authority	Authorized officer
European Patent Office. P.B. 5818 Patentlaan 2 NL-2280 HV Rijswijk Tel. (+31-70) 340-2040, Tx. 31 651 epo nl. Fax: (+31-70) 340-3016	Clifford Lekahena

NOTES TO FORM PCT/ISA/220

These Notes are intended to give the basic instructions concerning the filing of amendments under article 19. The Notes are based on the requirements of the Patent Cooperation Treaty, the Regulations and the Administrative Instructions under that Treaty. In case of discrepancy between these Notes and those requirements, the latter are applicable. For more detailed information, see also the PCT Applicant's Guide, a publication of WIPO.

In these Notes, "Article", "Rule", and "Section" refer to the provisions of the PCT, the PCT Regulations and the PCT Administrative Instructions respectively.

INSTRUCTIONS CONCERNING AMENDMENTS UNDER ARTICLE 19

The applicant has, after having received the international search report, one opportunity to amend the claims of the international application. It should however be emphasized that, since all parts of the international application (claims, description and drawings) may be amended during the international preliminary examination procedure, there is usually no need to file amendments of the claims under Article 19 except where, e.g. the applicant wants the latter to be published for the purposes of provisional protection or has another reason for amending the claims before international policiation. Furthermore, it should be emphasized that provisional protection is available in some States only.

What parts of the international application may be amended?

Under Article 19, only the claims may be amended.

During the international phase, the claims may also be amended (or further amended) under Article 34 before the International Preliminary Examining Authority. The description and drawings may only be amended under Article 34 before the International Examining Authority.

Upon entry into the national phase, all parts of the international application may be amended under Article 28 or, where applicable, Article 41.

When?

Within 2 months from the date of transmittal of the international search report or 16 months from the priority date, whichever time limit expires later. It should be noted, however, that the amendments will be considered as having been received on time if they are received by the International Bureau after the expiration of the applicable time limit but before the completion of the technical preparations for international publication (Rule 46.1).

Where not to file the amendments?

The amendments may only be filed with the International Bureau and not with the receiving Office or the International Searching Authority (Rule 46.2).

Where a demand for international preliminary examination has been its filed, see below.

How?

Either by cancelling one or more entire claims, by adding one or more new claims or by amending the text of one or more of the claims as filed.

A replacement sheet must be submitted for each sheet of the claims which, on account of an amendment or amendments, differs from the sheet originally filed.

All the claims appearing on a replacement sheet must be numbered in Arabic numerals. Where a claim is cancelled, no renumbering of the other claims is required. In all cases where claims are renumbered, they must be renumbered consecutively (Administrative Instructions, Section 205(b)).

The amendments must be made in the language in which the international application is to be published.

What documents must/may accompany the amendments?

Letter (Section 205(b)):

The amendments must be submitted with a letter.

The letter will not be published with the international application and the amended claims. It should not be confused with the "Statement under Article 19(1)" (see below, under "Statement under Article 19(1)").

The letter must be in English or French, at the choice of the applicant. However, if the language of the international application is English, the letter must be in English; if the language of the international application is French, the letter must be in French.

NOTES TO FORM PCT/ISA/220 (continued)

The letter must indicate the differences between the claims as filed and the claims as amended. It must, in particular, indicate, in connection with each claim appearing in the international application (it being understood that identical indications concerning several claims may be grouped), whether

- (i) the claim is unchanged;
- (ii) the claim is cancelled;
- (iii) the claim is new;
- (iv) the claim replaces one or more claims as filed;
- (v) the claim is the result of the division of a claim as filed.

The following examples illustrate the manner in which amendments must be explained in the accompanying letter:

- [Where originally there were 48 claims and after amendment of some claims there are 51]:
 *Claims 1 to 29, 31, 32, 34, 35, 37 to 48 replaced by amended claims bearing the same numbers;
 claims 30, 33 and 36 unchanged; new claims 49 to 51 added.*
- [Where originally there were 15 claims and after amendment of all claims there are 11]:
- 3. [Where originally there were 14 claims and the amendments consist in cancelling some claims and in adding new claims]:
 "Claims 1 to 6 and 14 unchanged; claims 7 to 13 cancelled; new claims 15, 16 and 17 added." or "Claims 7 to 13 cancelled; new claims 15, 16 and 17 added; all other claims unchanged."
- [Where various kinds of amendments are made]:
 "Claims 1-10 unchanged; claims 11 to 13, 18 and 19 cancelled; claims 14, 15 and 16 replaced by amended claim 14; claim 17 subdivided into amended claims 15, 16 and 17; new claims 20 and 21 added."

"Statement under article 19(1)" (Rule 46.4)

The amendments may be accompanied by a statement explaining the amendments and indicating any impact that such amendments might have on the description and the drawings (which cannot be amended under Article 19(1)).

The statement will be published with the international application and the amended claims.

It must be in the language in which the international appplication is to be published.

It must be brief, not exceeding 500 words if in English or if translated into English.

It should not be confused with and does not replace the letter indicating the differences between the claims as filed and as amended. It must be filed on a separate sheet and must be identified as such by a heading, preferably by using the words "Statement under Article 19(1)."

It may not contain any disparaging comments on the international search report or the relevance of citations contained in that report. Reference to citations, relevant to a given claim, contained in the international search report may be made only in connection with an amendment of that claim.

Consequence if a demand for international preliminary examination has already been filed

If, at the time of filing any amendments under Article 19, a demand for international preliminary examination has already been submitted, the applicant must preferably, at the same time of filing the amendments with the International Bureau, also file a copy of such amendments with the International Preliminary Examining Authority (see Rule 62.2(a), first sentence).

Consequence with regard to translation of the international application for entry into the national phase

The applicant's attention is drawn to the fact that, where upon entry into the national phase, a translation of the claims as amended under Article 19 may have to be furnished to the designated/elected Offices, instead of, or in addition to, the translation of the claims as filed

For further details on the requirements of each designated/elected Office, see Volume II of the PCT Applicant's Guide.

PATENT COOPERATION TREATY

PCT

INTERNATIONAL SEARCH REPORT

(PCT Article 18 and Rules 43 and 44)

Applicant's or agent's fil SA998163	ACTION	HER see Notification (Form PCT/ISA/2	of Transmittal of International Search Report 220) as well as, where applicable, item 5 below.
nternational application	No. International filing	date (day/month/year)	(Earliest) Priority Date (day/month/year)
PCT/GB 99/0355			
Applicant	211	10/1999	13/11/1998
This International Searce according to Article 18. This International Searce X It is also It is also It is also It. Basis of the report a. With regard to the language in which is the international Searce X It is also It. Basis of the report a. With regard to the international Searce X It is also It is also It. Basis of the report a. With regard to a searce X It. Basis of the report a. With regard to a searce X It. Basis of the report a. With regard to a searce X It. Basis of the report a.	e language, the international search whit was filed, unless otherwise indicate national search was carried out on the be (Rule 23.1(b)).	ernational Searching Authorational Bureau. sheets. art document cited in this in the document cited in the dasied under this item.	nority and is transmitted to the applicant report. is of the international application in the reconstructional application furnished to this remational application, the international search
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	aims were found unsearchable (See	Box I).	
Unity of	nvention is lacking (see Box II).		
With regard to the titl	•		
Com-	approved as submitted by the applicant	†	
	s been established by this Authority to		
the text hat within one	approved as submitted by the applicant	38.2(b), by this Authority anternational search report	
	ed by the applicant.	rigure No.	5
		•	None of the figures.
because the	e applicant failed to suggest a figure.		•

INTERNATIONAL SEARCH REPORT

International Application No PCT/GB 99/03554

CLASSIFICATION OF SUBJECT MATTER IPC 7 G11B19/20 G11B33/08 G11B33/12 H02K5/00 According to International Patent Classification (IPC) or to both national classification and IPC **B. FIELDS SEARCHED** Minimum documentation searched (classification system followed by classification symbols) IPC 7 G11B H02K Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched Electronic data base consulted during the international search (name of data base and, where practical, search terms used) C. DOCUMENTS CONSIDERED TO BE RELEVANT Citation of document, with indication, where appropriate, of the relevant passages Category * Relevant to claim No. US 5 796 707 A (KIM SEUNG-MIN) 1-5,13, 18 August 1998 (1998-08-18) 14 column 3, line 8 -column 4, line 20; Χ GB 2 185 356 A (MABUCHI MOTOR CO) 1-5,13,15 July 1987 (1987-07-15) abstract; figures 1,2A page 1, line 6 - line 63 page 1, line 97 -page 2, line 22 χ PATENT ABSTRACTS OF JAPAN 1-5,13,vol. 1995, no. 10 14 30 November 1995 (1995-11-30) -& JP 07 169258 A (SONY CORP), 4 July 1995 (1995-07-04) abstract; figures Further documents are listed in the continuation of box C. X Patent family members are listed in annex. Special categories of cited documents: T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the "A" document defining the general state of the art which is not considered to be of particular relevance invention earlier document but published on or after the international "X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to filing date document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another involve an inventive step when the document is taken alone "Y" document of particular relevance; the claimed invention citation or other special reason (as specified). cannot be considered to involve an inventive step when the document is combined with one or more other such docu-"O" document referring to an oral disclosure, use, exhibition or other means ments, such combination being obvious to a person skilled document published prior to the international filing date but in the art. later than the priority date claimed "&" document member of the same patent family Date of the actual completion of the international search Date of mailing of the international search report 3 February 2000 10/02/2000 Name and mailing address of the ISA Authorized officer European Patent Office, P.B. 5818 Patentlaan 2 NL - 2280 HV Riiswiik Tel. (+31-70) 340-2040, Tx. 31 651 epo nl. Declat, M Fax: (+31-70) 340-3016

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INTERNATIONAL SEARCH REPORT

International Application No
PCT/GB 99/03554

C.(Continu	ation) DOCUMENTS CONSIDERED TO BE RELEVANT	PCT/GB 99/03554
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X	GB 2 085 635 A (VICTOR COMPANY OF JAPAN) 28 April 1982 (1982-04-28) page 3, line 77 -page 4, line 86; figures 3-6	1-8,13, 14
x	GB 2 187 325 A (MITSUBISHI ELECTRIC CORP) 3 September 1987 (1987-09-03) page 4, line 45 - line 107; figures 8-11	1-10,13, 14
Α	US 5 081 551 A (ARUGA TOMOE) 14 January 1992 (1992-01-14) column 8, line 10 -column 10, line 57; figures	1-7,13, 14
A	EP 0 234 661 A (PHILIPS NV) 2 September 1987 (1987-09-02) abstract; figures	1-8,13, 14
Α	US 3 790 114 A (ITALIANO F ET AL) 5 February 1974 (1974-02-05) abstract; figures	1,14
Α .	EP 0 847 127 A (SAIA BURGESS ELECTRONICS AG) 10 June 1998 (1998-06-10) abstract; figures	1-6,14
A	US 4 849 667 A (MORRILL GILES W) 18 July 1989 (1989-07-18) abstract; figures	1,14
4	US 5 376 850 A (ELSING JOHN W ET AL) 27 December 1994 (1994-12-27) cited in the application	
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INTERNATIONAL SEARCH REPORT

Information on patent family members

International Application No PCT/GB 99/03554

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